vivantis

RESTRICTION ENDONUCLEASE

Product Datasheet

Mbo II

5'...GAAGA(N)$_8$...3'
3'...CTTCT(N)$_7$...5'

Product No : RE1290
Quantity : 100u

Lot :
Expiry Date :
Concentration : 5u/µl
Supplied with : 1ml of 10X Buffer *Mbo* II
1ml of 10X Buffer UB
0.5ml Diluent Viva Buffer A
(BSA included in all Reaction Buffer)

Store at -20°C

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Reaction Conditions:
Buffer *Mbo* II,
30mM Tris-acetate (pH 7.9 at 30°C), 10mM Mg-acetate, 60mM K-acetate, 7mM 2-mercaptoethanol and 100µg/ml BSA.
Incubate at 37°C.

Dilution: Viva Buffer A
10mM Tris-HCl (pH 7.4 at 25°C), 50mM KCl, 0.1mM EDTA, 1mM DTT, 200µg/ml BSA and 50% glycerol.

Thermal Inactivation: 65°C for 20 minutes

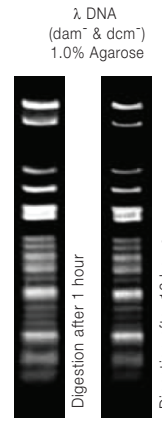
Storage Buffer:
10mM Tris-HCl (pH 7.5), 100mM NaCl, 0.1mM EDTA, 7mM 2-mercaptoethanol, 100µg/ml BSA and 50% glycerol.

Unit Definition:
1u is defined as the amount of enzyme that is required to digest 1µg of DNA in 1 hour at 37°C in 50µl of assay buffer.

Quality Control Assays:

Ligation/ Recutting Assay:
After 5-fold overdigestion with ***Mbo* II**, more than 90% of the DNA fragments can be ligated and recut.

Overdigestion assay:
An unaltered banding pattern was observed after 1µg of DNA was digested with 10u of ***Mbo* II** for 16 hours at 37°C (Without BSA).



Activity in Reaction Buffer				
V1	V2	V3	V4	V5
25%	25%	50%	25%	75%

Buffer UB			
0.5X	1.0X	1.5X	2.0X
75%	75%	75%	50%

* Buffer UB is provided for double digestion purpose.

NOTE:
* Blocked by overlapping dam-methylation (GmATC): **GAAGA**TC.
* Total reaction volume dependent on experiment.
* The amount of enzyme to be used is very much dependent on the DNA template.
* For plasmid DNA, 5-10X more enzyme is required.

Example of Digestion Reaction

Enzyme	: 1 unit
Lambda(dam⁻ & dcm⁻)0.3µg/µl	: 3.33µl (1µg DNA)
10X Reaction Buffer	: 5µl
Sterile Distilled Water	: Up to 50µl